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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/535,088	10/05/2005	Luc Forget	ETF-0016	2020
23413 7590 06/12/2009 CANTOR COLBURN, LLP 20 Church Street			EXAMINER	
			KRUER, KEVIN R	
22nd Floor Hartford, CT (06103		ART UNIT	PAPER NUMBER
, , , , , ,			1794	
			NOTIFICATION DATE	DELIVERY MODE
			06/12/2009	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usptopatentmail@cantorcolburn.com

Application No. Applicant(s) 10/535.088 FORGET ET AL Office Action Summary Examiner Art Unit KEVIN R. KRUER 1794 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 2/26/09. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) 9-13 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 13 May 2005 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No.

Attachment(s)

1) Notice of References Cited (PTC-892)

1) Notice of Draftsperson's Patent Drawing Review (PTC-948)

3) Notice of Draftsperson's Patent Drawing Review (PTC-948)

7) Notice of Information-Drawing Review (PTC-948)

7) Notice of Information Patent Application

7) Notice of Information Patent Application

7) Notice of Information Patent Application

application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

3. Copies of the certified copies of the priority documents have been received in this National Stage

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DETAILED ACTION

Election/Restrictions

 Applicant's election without traverse of Group I, claims 1-8, in the reply filed on February 26, 2009 is acknowledged.

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

The information disclosure statement filed May 13, 2005 has been fully considered.An initialed copy of said IDS is enclosed herein.

Drawings

The drawings filed May 13, 2005 are accepted.

Specification

- The abstract of the disclosure is objected to because it is not filed on a separate sheet. Correction is required. See MPEP § 608.01(b).
- The specification is objected to because it does not contain a brief description of the drawings.
- The following guidelines illustrate the preferred layout for the specification of a utility application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include the following sections in order. Each of the lettered items should appear in upper case, without underlining or bold type, as a section heading. If no text

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follows the section heading, the phrase "Not Applicable" should follow the section heading:

- (a) TITLE OF THE INVENTION.
- (b) CROSS-REFERENCE TO RELATED APPLICATIONS.
- (c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT.
- (d) THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT.
- (e) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC.
- (f) BACKGROUND OF THE INVENTION.
 - Field of the Invention.
 - (2) Description of Related Art including information disclosed under 37 CFR 1.97 and 1.98.
- (a) BRIEF SUMMARY OF THE INVENTION.
- (h) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).
- (i) DETAILED DESCRIPTION OF THE INVENTION.
- (i) CLAIM OR CLAIMS (commencing on a separate sheet).
- (k) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).
- (I) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence Listing" is required on paper if the application discloses a nucleotide or amino acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence Listing" is not submitted as an electronic document on compact disc).

Claim Rejections - 35 USC § 112

8. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

9. Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claim states the intermediate layer comprises an olefinic polymer "containing a metallocene." It is unclear whether a metallocene catalyst must be present or if the claim is referring to a metallocene catalyzed olefinic resin.

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hanoka (US 6.114.046) in view of Zenko et al (US 20020038664).

Hanoka teaches a solar cell module comprising a laminate; the laminate comprises an ionomeric layer, a metallocene catalyzed polyethylene layer, and an ionomer layer (Figure 1). The ionomeric layer reads on the claimed wear layer, the two polyethylene layers red on the claimed substrate and intermediate layers.

With regards to claim 6, the second ionomeric layer is understood to read on the substrate and the two polyethylene layers are understood to read on the claimed intermediate and additional layers.

Hanoka does not teach the polyethylene layers should comprise low density polyethylene in amounts of 1-40wt%. However, teaches a solar cell module wherein the encapsulate comprises LDPE (0088) and acrylic resin wherein the LDPE is included in amounts of 10:100 (see examples). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the encapsulate of Hanoka comprising acrylic and LDPE as the encapsulate taught in Hanoka because

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said compositions are known in the art to be useful as encapsulates for solar cell modules. Furthermore, it would have been obvious to catalyze the LPDE with metallocene because Hanoka teaches such polymers have improved clarity and mechanical strength (col 5, lines 25+).

 Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hanoka (US 6,114,046) in view of Zenko et al (US 20020038664)., as applied to claims 1-7 above, and further in view of JP-0923018.

Hanoka is relied upon as above but does not teach a polyurethane may be applied to the ionomeric layer. However, JP-018 teaches the application of a polyurethane to a solar cell module substrate in order to eliminate the need for glass layers (see abstract and column 2, lines 30+ of Hanoka). Therefore, it would have been obvious to the skilled artisan at the time the invention was made to add a polyurethane layer to the ionomer layer of Hanoka in order to eliminate the need for glass layers.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEVIN R. KRUER whose telephone number is (571)272-1510. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Callie Shosho can be reached on 571-272-1123. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kevin R Kruer/ Primary Examiner, Art Unit 1794